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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20020169980"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:49
L2	2	"20050005519"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:50
L3	3	"20050055519"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 23:12
L4	47	retention with policy with content	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:55
L5	19	retention with (period or policy) with content with (address or sector or inode or location)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:56
L6	20	retention with (period or policy) with content with (address or sector or inode or location or pointer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 23:45
L7	3	retention with (period or policy) with content with (address or sector or inode or location or pointer) @ad<"20031209"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:57
L8	24	(retain\$3 or retention or archiv\$3) with (period or policy) with content with (address or sector or inode or location or pointer) @ad<"20031209"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:59
L9	157	(retain\$3 or retention or archiv\$3) with (days or hours or minutes or seconds or time or period or policy) with content with (address or sector or inode or location or pointer) @ad<"20031209"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:59
L10	8	content with (address or sector or inode or location or pointer) @ad<"20031209" (predefined or previously near3 defined) with (retain\$3 or retention or archiv\$3) with (days or hours or minutes or seconds or time or period or policy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 23:00

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L11	0	content with (address or sector or inode or location or pointer) same (predefined or previously near3 defined) with (retain\$3 or retention or archiv\$3) with (days or hours or minutes or seconds or time or period or policy) @ad<"20031209"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 23:00
L12	5	10/658,487	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 23:12
S1	16	10/731,790	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/26 22:48
S2	2	"20060101084"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/26 22:56
S3	3	"6560674".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:50
S4	2	"6754831".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 22:49
S5	16	10/731,790	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	AND	ON	2007/07/27 16:45

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Terms used: **file retention staging policy migration**

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Relevance scale 

1 Long term file migration: development and evaluation of algorithms

 Alan Jay Smith

August 1981 **Communications of the ACM**, Volume 24 Issue 8

Publisher: ACM Press

Full text available:  [pdf\(1.26 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The steady increase in the power and complexity of modern computer systems has encouraged the implementation of automatic file migration systems which move files dynamically between mass storage devices and disk in response to user reference patterns. Using information describing 13 months of user disk data set file references, we develop and evaluate (replacement) algorithms for the selection of files to be moved from disk to mass storage. Our approach is general and demonstrates a general ...

Keywords: file migration, mass storage, memory hierarchies, paging, replacement algorithm

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Data base directions: the next steps

 John L. Berg

November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2

Publisher: ACM Press

Full text available:  [pdf\(9.95 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were

auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

4 Storage systems: Position: short object lifetimes require a delete-optimized storage system 

 **Fred Dougulis, John Palmer, Elizabeth S. Richards, David Tao, William H. Tetzlaff, John M. Tracey, Jian Yin**

September 2004 **Proceedings of the 11th workshop on ACM SIGOPS European workshop: beyond the PC EW11**

Publisher: ACM Press

Full text available:  pdf(146.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Early file systems were designed with the expectation that data would typically be read from disk many times before being deleted; on-disk structures were therefore optimized for reading. As main memory sizes increased, more read requests could be satisfied from data cached in memory, motivating file system designs that optimize write performance. Here, we describe how one might build a storage system that optimizes not only reading and writing, but creation and deletion as well. Efficiency is a ...

5 National id card: the next generation: The US/Mexico border crossing card (BCC): a case study in biometric, machine-readable id 

 **Andrew Schulman**

April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy CFP '02**

Publisher: ACM Press

Full text available:  htm(187.31 KB) Additional Information: [full citation](#), [index terms](#)

6 Short papers -- works in progress: Toward a threat model for storage systems 

 **Ragib Hasan, Suvda Myagmar, Adam J. Lee, William Yurcik**

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**

Publisher: ACM Press

Full text available:  pdf(258.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The growing number of storage security breaches as well as the need to adhere to government regulations is driving the need for greater storage protection. However, there is the lack of a comprehensive process to designing storage protection solutions. Designing protection for storage systems is best done by utilizing proactive system engineering rather than reacting with ad hoc countermeasures to the latest attack du jour. The purpose of threat modeling is to organize system threats and vulnera ...

Keywords: security, storage system, threat model

7 Level II technical support in a distributed computing environment 

 **Tim Leehane**

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96**

Publisher: ACM Press

Full text available:  pdf(5.73 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

8 Digest of proceedings seventh IEEE workshop on hot topics in operating systems

 March 29-30 1999, Rio Rico, AZ

M. Satyanarayanan

October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.67 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Seventh IEEE Workshop on Hot Topics in Operating Systems was held on March 29-30 1999 at the Rio Rico Resort & Country Club, south of Tucson, Arizona. The General Chair, Peter Druschel, and the Local Arrangements Chair, John Hartman, had gone to considerable effort to make the operation of the workshop smooth and pleasant for the participants. The secluded desert locale, the effect of brilliant sunshine and blue skies on winter-jaded northerners, and the enthusiasm and energy of the ...

9 Trustworthy 100-year digital objects: durable encoding for when it's too late to ask

 H. M. Gladney, R. A. Lorie

July 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

How can an author store digital information so that it will be reliably intelligible, even years later when he or she is no longer available to answer questions? Methods that *might* work are not good enough; what is preserved today should be reliably intelligible whenever someone wants it. Prior proposals fail because they generally confound saved data with irrelevant details of today's information technology---details that are difficult to define, extract, and save completely and accurate ...

Keywords: Long-term digital preservation, encoding

10 Garbage collecting the Internet: a survey of distributed garbage collection

 Saleh E. Abdullahi, Graem A. Ringwood

September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3

Publisher: ACM Press

Full text available:  pdf(337.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Internet programming languages such as Java present new challenges to garbage-collection design. The spectrum of garbage-collection schema for linked structures distributed over a network are reviewed here. Distributed garbage collectors are classified first because they evolved from single-address-space collectors. This taxonomy is used as a framework to explore distribution issues: locality of action, communication overhead and indeterministic communication latency.

Keywords: automatic storage reclamation, distributed, distributed file systems, distributed memories, distributed object-oriented management, memory management, network communication, object-oriented databases, reference counting

11 HOPT: A myopic version of the STOCHOPT automatic file migration policy

 Frank Olken

August 1983 **Proceedings of the 1983 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '83**

Publisher: ACM Press

Full text available:  pdf(382.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The STOCHOPT automatic file migration policy (proposed by A.J. Smith) minimizes the expected retention and recall costs of an arbitrarily sized file. We consider the application

of the STOCHOPT policy to a file system in which the file inter-reference time (IRT) distributions are characterized by strictly monotonically decreasing hazard rates (SDHR) (also known as decreasing failure rates, DFR). We show that in this case the STOCHOPT policy can be simply stated in terms of a scaled hazard ra ...

12 Dynamic file migration in distributed computer systems

 Bezalel Gavish, Olivia R. Liu Sheng
February 1990 **Communications of the ACM**, Volume 33 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.53 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The importance of file migration is increasing because of its potential to improve the performance of distributed office, manufacturing and hospital information systems. To encourage research in the file migration problem, the authors summarize accomplishments of researchers of the problem, provide a detailed comparison of file migration and dynamic file allocation problems, and identify important areas of research to support the development of effective file migration policies.

13 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 4 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(5.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

14 Smalltalk-80: the language and its implementation

Adele Goldberg, David Robson
January 1983 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available:  pdf(33.56 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#), [review](#)

From the Preface (See Front Matter for full Preface)

Advances in the design and production of computer hardware have brought many more people into direct contact with computers. Similar advances in the design and production of computer software are required in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional and interactive ...

15 Some assembly required: building a digital government for the 21st century

Sharon S. Dawes, Peter A. Bloniarz, Kristine L. Kelly, Patricia D. Fletcher
May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**

Publisher: Digital Government Research Center

Full text available:  pdf(889.22 KB)

Additional Information: [full citation](#), [references](#)

16 Some assembly required: building a digital government for the 21st century

Sharon S. Dawes, Peter A. Bloniarz, Kristine L. Kelly, Patricia D. Fletcher
May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

Publisher: Digital Government Research Center

Full text available: [pdf\(889.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This material is based upon work supported in part by the National Science Foundation under Grant No. 99-181. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.

17 Operating systems in a changing world

◆ Maurice Wilkes
April 1994 **ACM SIGOPS Operating Systems Review**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: [pdf\(711.06 KB\)](#) Additional Information: [full citation](#), [index terms](#)

18 Secure file system versioning at the block level

◆ Jake Wires, Michael J. Feeley
March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the 2007 conference on EuroSys EuroSys '07**, Volume 41 Issue 3

Publisher: ACM Press

Full text available: [pdf\(406.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In typical file systems, valuable data is vulnerable to being accidentally or maliciously deleted or overwritten. Versioning file systems protect data from accidents by transparently retaining old versions, but do less well in protecting data from malicious attack. These systems remain vulnerable to attackers who gain unauthorized access to prune old file versions, who bypass the file system to directly manipulate storage, or who exploit bugs in any part of the operating system.

This p ...

19 Web engineering: Just-in-time recovery of missing web pages

◆ Terry L. Harrison, Michael L. Nelson
August 2006 **Proceedings of the seventeenth conference on Hypertext and hypermedia HYPERTEXT '06**

Publisher: ACM Press

Full text available: [pdf\(911.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present Opal, a light-weight framework for interactively locating missing web pages (http status code 404). Opal is an example of "in vivo" preservation: harnessing the collective behavior of web archives, commercial search engines, and research projects for the purpose of preservation. Opal servers learn from their experiences and are able to share their knowledge with other Opal servers by mutual harvesting using the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH). Using ...

Keywords: 404 web pages, apache web server, digital preservation

20 Conserving network processor power consumption by exploiting traffic variability

◆ Yan Luo, Jia Yu, Jun Yang, Laxmi N. Bhuyan
March 2007 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: [pdf\(595.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Network processors (NPs) have emerged as successful platforms for providing both high performance and flexibility in building powerful routers. Typical NPs incorporate multiprocessing and multithreading to achieve maximum parallel processing capabilities. We observed that under low incoming traffic rates, processing elements (PEs) in an NP are idle for most of the time but still consume dynamic power. This paper develops a low-power technique to reduce the activities of PEs in accordance with ...

Keywords: Network processor, clock gating, low power, scheduling

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IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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1. Management issues for High-Performance Storage Systems

Louis, S.; Burris, R.D.;

Mass Storage Systems, 1995. 'Storage - At the Forefront of Information Infrast
Proceedings of the Fourteenth IEEE Symposium on

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2. Physical volume library deadlock avoidance in a striped media environment

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3. A unified multiple-level cache for high performance storage systems

Ou, L.; He, X.; Kosa, M.J.; Scott, S.L.;

Modeling, Analysis, and Simulation of Computer and Telecommunication Systems
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Watson, R.W.;

Mass Storage Systems and Technologies, 2005. Proceedings. 22nd IEEE / 13
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- 9. ASA: an adaptive space allocation algorithm for cache management in m**
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Li Ou; Sankar, K.; Xubin He;
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- 10. Texture-based 3D brain imaging**
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- 11. HPSS at Los Alamos: Experiences and analysis**
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13. The data-acquisition system for the CMS tracker beam tests
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Bryan Banister
Andrews, P.; Sherwin, T.; Banister, B.; [Mass Storage Systems and Technologies, 2001. MSS '01. Eighteenth IEEE Symposium on](#)
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- 20. Configuring and tuning archival storage systems**
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- 21. Analysis of HPSS performance based on per-file transfer logs**
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- 22. A 1990s solution to the crisis in mass storage**
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- 23. Subspace subcodes of Reed-Solomon codes**
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Koibuchi, M.; Watanae, K.; Kono, K.; Jouraku, A.; Amano, H.;
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2003 Page(s):395 - 402
Digital Object Identifier 10.1109/CLUSTR.2003.1253339
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Relevance scale

1 [The high performance storage system](#)

R. A. Coyne, H. Hulen, R. Watson

December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing Supercomputing '93**

Publisher: ACM Press

Full text available: [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



2 [Integrating Metadata Tools with the Data Services Archive to Provide Web-based Management of Large-Scale Scientific Simulation Data](#)

Victor P. Holmes, Wilbur R. Johnson, David J. Miller

April 2004 **Proceedings of the 37th annual symposium on Simulation ANSS '04**

Publisher: IEEE Computer Society

Full text available: [pdf\(226.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)



A Metadata tools system and a Data Services system are undergoing development and integration, at Sandia National Laboratories, to provide web-based access to high-performance computing clusters and its associated simulation data. These clusters host a set of scalable post-processing applications for very large data manipulation, and the examination of results generated by high-fidelity simulations in support of the design to analysis process for ensuring safety and reliability of the nation's nuclear ...

3 [Building and supporting a massive data infrastructure for the masses](#)

Anurag Shankar, Gustav Meglicki, Jeff Russ, Haichuan Yang, E. Chris Garrison

November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services SIGUCCS '02**

Publisher: ACM Press

Full text available: [pdf\(526.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



On a typical university campus, the words "massive data storage" (MDS) usually bring to mind technology high-end, high performance computing (HPC) users might use. This is because academic supercomputer sites have traditionally provided a tightly interwoven HPC and high performance, MDS fabric to their users for decades. However, a new paradigm in data storage is now emerging where large, central, hierarchical storage management (HSM) services may play an increasingly important role in the non-H ...

Keywords: DCE, DFS, HPSS, HSM, distributed storage, hierarchical storage management, massive data storage, support

4 Memory: Coupling prefix caching and collective downloads for remote dataset access 

 Xaosong Ma, Vincent W. Freeh, Tao Yang, Sudharshan S. Vazhkudai, Tyler A. Simon, Stephen L. Scott

June 2006 **Proceedings of the 20th annual international conference on Supercomputing ICS '06**

Publisher: ACM Press

Full text available:  [.pdf\(490.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Scientific datasets are typically archived at mass storage systems or data centers close to supercomputers/instruments. End-users of these datasets, however, usually perform parts of their workflows at their local computers. In such cases, client-side caching can offer significant gains by reducing the cost of wide-area data movement. Scientific data caches, however, traditionally cache entire data-sets, which may not be necessary. In this paper, we propose a novel combination of prefix caching < ...

5 Research data storage available to researchers throughout the U.S. via the TeraGrid 

 D. Scott McCaulay, Matt R. Link

November 2006 **Proceedings of the 34th annual ACM SIGUCCS conference on User services SIGUCCS '06**

Publisher: ACM Press

Full text available:  [.pdf\(139.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many faculty members at small to mid-size colleges and universities do important, high quality research that requires significant storage. In many cases, such storage requirements are difficult to meet with local resources; even when local resources suffice, data integrity is best ensured by maintenance of a remote copy. Via the nationally-funded TeraGrid, Indiana University offers researchers at colleges and universities throughout the US the opportunity to easily store up to 1 TB of data withi ...

Keywords: TeraGrid, grid computing, storage: large-scale

6 Constructing collaborative desktop storage caches for large scientific datasets 

 Sudharshan S. Vazhkudai, Xaosong Ma, Vincent W. Freeh, Jonathan W. Strickland, Nandan Tammineedi, Tyler Simon, Stephen L. Scott

August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available:  [.pdf\(833.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

High-end computing is suffering a *data deluge* from experiments, simulations, and apparatus that creates overwhelming application dataset sizes. This has led to the proliferation of high-end mass storage systems, storage area clusters, and data centers. These storage facilities offer a large range of choices in terms of capacity and access rate, as well as strong data availability and consistency support. However, for most end-users, the "last mile" in their analysis pipeline o ...

Keywords: Distributed storage, parallel I/O, scientific data management, serverless storage system, storage cache, storage networking, storage resouce management, storage scavenging, striped storage

7 FreeLoader: Scavenging Desktop Storage Resources for Scientific Data 

Sudharshan S. Vazhkudai, Xaosong Ma, Vincent W. Freeh, Jonathan W. Strickland, Nandan Tammineedi, Stephen L. Scott

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available:  [.pdf\(410.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

High-end computing is suffering a data deluge from experiments, simulations, and apparatus that creates overwhelming application dataset sizes. End-user workstations—despite more processing power than ever before—are ill-equipped to cope with such data demands due to insufficient secondary storage space and I/O rates. Meanwhile, a large portion of desktop storage is unused. We present the FreeLoader framework, which aggregates unused desktop storage space and I/O bandwidth into a shared cache/sc ...

Keywords: Distributed storage, storage scavenging, storage cache, serverless storage system, scientific data management, parallel I/O, striped storage

8 [The SDSC storage resource broker](#)

 Chaitanya Baru, Reagan Moore, Arcot Rajasekar, Michael Wan

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research CASCON '98**

Publisher: IBM Press

Full text available:  [pdf\(153.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the architecture of the SDSC Storage Resource Broker (SRB). The SRB is middleware that provides applications a uniform API to access heterogeneous distributed storage resources including, filesystems, database systems, and archival storage systems. The SRB utilizes a metadata catalog service, MCAT, to provide a "collection"- oriented view of data. Thus, data items that belong to a single collection may, in fact, be stored on heterogeneous storage systems. The SRB infrastruct ...

9 [A novel application development environment for large-scale scientific computations](#)

 X. Shen, W. Liao, A. Choudhary, G. Memik, M. Kandemir, S. More, G. Thiruvathukal, A. Singh '00 **Proceedings of the 14th international conference on Supercomputing ICS**

Publisher: ACM Press

Full text available:  [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Our results demonstrate that our novel application development environment provides both ease-of-use and high performance for large-scale, I/O-intensive scientific applications.

10 [On implementing MPI-IO portably and with high performance](#)

 Rajeev Thakur, William Gropp, Ewing Lusk May 1999 **Proceedings of the sixth workshop on I/O in parallel and distributed systems IOPADS '99**

Publisher: ACM Press

Full text available:  [pdf\(887.89 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 [A brief survey of current work on network attached peripherals \(extended abstract\)](#)

 Rodney Van Meter January 1996 **ACM SIGOPS Operating Systems Review**, Volume 30 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(725.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Work on network-attached peripherals (NAPs) can be divided into essentially three areas -- device interfaces and protocols, multimedia use and mass storage use. This paper is an extended abstract reviewing some of the current work and provides references and WWW pointers to many of the projects. The impact of this technological advance on operating systems is discussed. The primary purpose of this paper is to broaden understanding of the advantages and pitfalls of NAPs and encourage further res ...

12 Using high-speed WANs and network data caches to enable remote and distributed visualization

Wes Bethel, Brian Tierney, Jason Lee, Dan Gunter, Stephen Lau

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '00**

Publisher: IEEE Computer Society

Full text available:  [pdf\(302.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
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Visapult is a prototype application and framework for remote visualization of large scientific datasets. We approach the technical challenges of tera-scale visualization with a unique architecture which employs high speed WANs and network data caches for data staging and transmission. This architecture allows for the use of available cache and compute resources at arbitrary locations on the network. High data throughput rates and network utilization are achieved by parallelizing I/O at each ...

13 GASS: a data movement and access service for wide area computing systems

 Joseph Bester, Ian Foster, Carl Kesselman, Jean Tedesco, Steven Tuecke

May 1999 **Proceedings of the sixth workshop on I/O in parallel and distributed systems IOPADS '99**

Publisher: ACM Press

Full text available:  [pdf\(950.99 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Statemate: a working environment for the development of complex reactive systems

D. Harel, H. Lachover, A. Naamad, A. Pnueli, M. Politi, R. Sherman, a. Shtul-Trauring

April 1988 **Proceedings of the 10th international conference on Software engineering ICSE '88**

Publisher: IEEE Computer Society Press

Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper provides a brief overview of the STATEMATE system, constructed over the past three years by i-Logix Inc., and Ad Cad Ltd. STATEMATE is a graphical working environment, intended for the specification, analysis, design and documentation of large and complex reactive systems, such as real-time embedded systems, control and communication systems, and interactive software. It enables a user to prepare, analyze and debug diagrammatic, yet precise, descriptions of the system under devel ...

15 File server scaling with network-attached secure disks

 Garth A. Gibson, David F. Nagle, Khalil Amiri, Fay W. Chang, Eugene M. Feinberg, Howard

Gobioff, Chen Lee, Berend Ozceri, Erik Riedel, David Rochberg, Jim Zelenka

June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97**, Volume 25 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.77 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

By providing direct data transfer between storage and client, network-attached storage devices have the potential to improve scalability for existing distributed file systems (by removing the server as a bottleneck) and bandwidth for new parallel and distributed file systems (through network striping and more efficient data paths). Together, these advantages influence a large enough fraction of the storage market to make commodity network-attached storage feasible. Realizing the technology's ful ...

16 File and storage systems: A heterogeneous storage grid enabled by grid service

Yuhui Deng, Frank Wang

January 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(202.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Due to the explosive increase of data, storage Grid is a new model for deploying and managing storage resources distributed across multiple systems and networks, making efficient use of available storage capacity. Building a storage Grid demands corresponding protocols and standards to provide interoperability among the large number of heterogeneous storage systems. Service is becoming a basic application pattern of Grid because the service offers a standard means of interoperateing between diffe ...

Keywords: architecture, grid service, heterogeneous storage system, interoperability, storage grid, web service

17 Using Hilbert curve in image storing and retrieving 

 Zhexuan Song, Nick Roussopoulos

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia MULTIMEDIA '00**

Publisher: ACM Press

Full text available:  [pdf\(355.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a method to accelerate the speed of retrieving subset of uncompressed images in a database without using extra disk space. First we change the storing method: pixels of an image are saved in Hilbert order instead of Row-wise order in traditional method. After studying the property of Hilbert curve, we give a new algorithm which greatly reduces the data segment numbers on the disk. Although we have to retrieve more data than necessary, because the speed of sequential ...

18 Workflow applications and models: Workflow automation for processing plasma 

 fusion simulation data

Norbert Podhorszki, Bertram Ludaescher, Scott A. Klasky

June 2007 **Proceedings of the 2nd workshop on Workflows in support of large-scale science WORKS '07**

Publisher: ACM Press

Full text available:  [pdf\(511.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Center for Plasma Edge Simulation project aims to automate the tedious tasks of monitoring the simulation, archiving and post-processing the output. This paper describes the tasks and requirements, the several components developed within the Kepler workflow system to provide the required functionality and the automated workflow solution. Besides functionality, the focus is on the robust execution of the workflow. A user-level checkpoint/restart model has been developed that allows the wor ...

Keywords: Kepler, SSH, checkpointing, plasma fusion, scientific workflow

19 Integrating parallel file I/O and database support for high-performance scientific data management 

Jaechun No, Rajeev Thakur, Alok Choudhary

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '00**

Publisher: IEEE Computer Society

Full text available:  [pdf\(174.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Many scientific applications have large I/O requirements, in terms of both the size of data and the number of files or data sets. Management, storage, efficient access, and analysis of these data present an extremely challenging task. Traditionally, two different solutions are used for this problem: file I/O or databases. File I/O can provide high performance but is tedious to use with large numbers of files and large and complex data sets.

Databases can be convenient, flexible, and powerf ...

20 Special section on advanced XML data processing: Preservation of digital data with self-validating, self-instantiating knowledge-based archives

 Bertram Ludäscher, Richard Marciano, Reagan Moore
September 2001 **ACM SIGMOD Record**, Volume 30 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(881.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital archives are dedicated to the long-term preservation of electronic information and have the mandate to enable sustained access despite rapid technology changes.

Persistent archives are confronted with heterogeneous data formats, helper applications, and platforms being used over the lifetime of the archive. This is not unlike the interoperability challenges, for which mediators are devised. To prevent technological obsolescence over time and across platforms, a migration approach for per ...

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Relevance scale

[1 Performance analysis of coherency control policies through lock retention](#)

Asit Dan, Philip S. Yu

June 1992 **ACM SIGMOD Record, Proceedings of the 1992 ACM SIGMOD international conference on Management of data SIGMOD '92**, Volume 21 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.18 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Buffer coherency control can be achieved through retaining a lock (shared, exclusive, etc.) on each page in the buffer, even after the requesting transaction has committed. Depending upon the lock mode held for retention and the compatibility of lock modes specified, different retention policies can be devised. In addition to tracking the validity of the buffered data granules, additional capabilities can be provided such as deferred writes to support no-force policy on commit, (node) locat ...

[2 A formal semantics for P3P](#)

Ting Yu, Ninghui Li, Annie I. Antón

October 2004 **Proceedings of the 2004 workshop on Secure web service SWS '04**

Publisher: ACM Press

Full text available: [pdf\(268.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The Platform for Privacy Preferences (P3P), developed by the W3C, provides an XML-based language for websites to encode their data-collection and data-use practices in a machine-readable form. To fully deploy P3P in enterprise information systems and over the Web, a well-defined semantics for P3P policies is a must, which is lacking in the current P3P framework. Without a formal semantics, a P3P policy may be semantically inconsistent and may be interpreted and represented differently by differe ...

[3 Automated analysis of P3P-enabled Web sites](#)

Simon Byers, Lorrie Faith Cranor, David Kormann

September 2003 **Proceedings of the 5th international conference on Electronic commerce ICEC '03**

Publisher: ACM Press

Full text available: [pdf\(193.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Platform for Privacy Preferences (P3P) provides a standard computer-readable format for privacy policies and a protocol that enables web browsers to read and process these policies automatically. We developed software to query a set of web sites for P3P policies, check the validity of each policy, and analyze the information practices it describes. We used this software to analyze 588 P3P-enabled web sites found by checking for P3P policies on 5,856 web sites on 17 July 2003. The sites we ch ...

Keywords: P3P, platform for privacy preferences, privacy, privacy policy

4 The platform for privacy preference as a social protocol: An examination within the

 **U.S. policy context**

Harry Hochheiser

November 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(241.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As a "social protocol" aimed at providing a technological means to address concerns over Internet privacy, the Platform for Privacy Preferences (P3P) has been controversial since its announcement in 1997. In the U.S., critics have decried P3P as an industry attempt to avoid meaningful privacy legislation, while developers have portrayed the proposal as a tool for helping users make informed decisions about the impact of their Web surfing choices. This dispute touches upon the privacy model under ...

Keywords: P3P, Privacy, social protocols

5 Secure file system versioning at the block level

 Jake Wires, Michael J. Feeley

March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the 2007 conference on EuroSys EuroSys '07**, Volume 41 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(406.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In typical file systems, valuable data is vulnerable to being accidentally or maliciously deleted or overwritten. Versioning file systems protect data from accidents by transparently retaining old versions, but do less well in protecting data from malicious attack. These systems remain vulnerable to attackers who gain unauthorized access to prune old file versions, who bypass the file system to directly manipulate storage, or who exploit bugs in any part of the operating system.

This p ...

6 E-P3P privacy policies and privacy authorization

 Paul Ashley, Satoshi Hada, Günter Karjoth, Matthias Schunter

November 2002 **Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society WPES '02**

Publisher: ACM Press

Full text available:  [pdf\(146.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Enterprises collect large amounts of personal data from their customers. To ease privacy concerns, enterprises publish privacy statements that outline how data is used and shared. The Platform for Enterprise Privacy Practices (E-P3P) defines a fine-grained privacy policy model. A Chief Privacy Officer can use E-P3P to formalize the desired enterprise-internal handling of collected data. A particular data user is then allowed to use certain collected data for a given purpose if and only if the E- ...

Keywords: E-P3P, privacy manager, privacy policies

7 Systems: Multi-fidelity storage

 Padmanabhan Pillai, Yan Ke, Jason Campbell

October 2004 **Proceedings of the ACM 2nd international workshop on Video surveillance & sensor networks VSSN '04**

Publisher: ACM Press

Full text available: [pdf\(184.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Imaging sensors are inherently high bandwidth devices, and applications which store image data often encounter disk or memory limits. Commonly, upon reaching such a limit, storage systems will cease sampling or overwrite existing data in an oldest-first fashion. For most applications, neither approach is optimal. We introduce a flexible, policy-based, on-line algorithm for maximizing the application-specific value of data retained on a read/write/erase storage medium such as a hard disk or fl ...

Keywords: variable fidelity, video surveillance, weighted fair-share storage

8 Deciding when to forget in the Elephant file system

 Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, Ross W. Carton, Jacob Ofir

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern file systems associate the deletion of a file with the immediate release of storage, and file writes with the irrevocable change of file contents. We argue that this behavior is a relic of the past, when disk storage was a scarce resource. Today, large cheap disks make it possible for the file system to protect valuable data from accidental delete or overwrite. This paper describes the design, implementation, and performance of the Elephant file system, which automatically retains all impo ...

9 Data protection and data sharing in telematics

Sastry Duri, Jeffrey Elliott, Marco Gruteser, Xuan Liu, Paul Moskowitz, Ronald Perez, Moninder Singh, Jung-Mu Tang

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(303.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automotive telematics may be defined as the information-intensive applications enabled for vehicles by a combination of telecommunications and computing technology. Telematics by its nature requires the capture, storage, and exchange of sensor data to obtain remote services. Such data likely include personal, sensitive information, which require proper handling to protect the driver's privacy. Some existing approaches focus on protecting privacy through anonymous interactions or by stopping i ...

Keywords: automotive telematics, data protection architecture, privacy policies

10 Cryptography, data retention, and the panopticon society (abstract)

 Jean-François Blanchette, Deborah G. Johnson

June 1998 **ACM SIGCAS Computers and Society , Proceedings of the ethics and social impact component on Shaping policy in the information age ACM POLICY '98**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: [pdf\(172.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

As we move our social institutions from paper and ink based operations to the electronic medium, we invisibly create a type of surveillance society, a panopticon society. It is not the traditional surveillance society in which government officials follow citizens around because they are concerned about threats to the political order. Instead it is piecemeal surveillance by public and private organizations. Piecemeal though it is, It creates the potential for the old kind of surveillan ...

11 User interfaces for privacy agents

 Lorrie Faith Cranor, Praveen Guduru, Manjula Arjula

June 2006 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 13 Issue 2

Publisher: ACM Press

Full text available: .pdf(1.82 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most people do not often read privacy policies because they tend to be long and difficult to understand. The Platform for Privacy Preferences (P3P) addresses this problem by providing a standard machine-readable format for website privacy policies. P3P user agents can fetch P3P privacy policies automatically, compare them with a user's privacy preferences, and alert and advise the user. Developing user interfaces for P3P user agents is challenging for several reasons: privacy policies are comple ...

Keywords: P3P, preferences, privacy, privacy enhancing technology, privacy policy, user agent

12 Privacy in e-commerce: examining user scenarios and privacy preferences

 Mark S. Ackerman, Lorrie Faith Cranor, Joseph Reagle

November 1999 **Proceedings of the 1st ACM conference on Electronic commerce EC '99**

Publisher: ACM Press

Full text available: .pdf(198.61 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Platform for Privacy Preferences, World Wide Web, electronic commerce, privacy, privacy protocols, user survey

13 Privacy in pervasive environments: next generation labeling protocols

Mark S. Ackerman

November 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 6

Publisher: Springer-Verlag

Full text available: .pdf(221.64 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In pervasive environments, privacy is likely to be a major issue for users, and users will want to be notified of potential data capture. To provide notice to users, this paper argues for what it calls labeling protocols, technical mechanisms through which users can be informed of data requests and their consequences. Recent experiences with the Platform for Privacy Preferences Project (P3P), an attempt to provide privacy mechanisms for the Web, suggest important lessons for the design of a n ...

Keywords: Labeling protocols, P3P, Pervasive environments, Platform for privacy preferences, Privacy, Ubiquitous computing

14 Separation thresholds, retention frontiers, and intervention assessment: human

 **capital in the information technology workforce**

Robert A. Josefek, Robert J. Kauffman

April 1999 **Proceedings of the 1999 ACM SIGCPR conference on Computer personnel research SIGCPR '99**

Publisher: ACM Press

Full text available: .pdf(1.20 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: IS professionals, IT human capital, binomial logit model, economic analysis,

retention, retention frontiers, retention policies, separation, separation thresholds, workforce retention

15 Use of a P3P user agent by early adopters

 Lorrie Faith Cranor, Manjula Arjula, Praveen Guduru

November 2002 **Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society WPES '02**

Publisher: ACM Press

Full text available:  [pdf\(450.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Platform for Privacy Preferences (P3P), developed by the World Wide Web Consortium (W3C), provides a standard computer-readable format for privacy policies and a protocol that enables web browsers to read and process privacy policies automatically. P3P enables machine-readable privacy policies that can be retrieved automatically by web browsers and other user agent tools that can display symbols, prompt users, or take other appropriate actions. We developed the AT&T Privacy Bird as a P3P use ...

Keywords: P3P, privacy, survey, user agent, user study

16 Protocols: An XPath-based preference language for P3P

 Rakesh Agrawal, Jerry Kiernan, Ramakrishnan Srikant, Yirong Xu

May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available:  [pdf\(107.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Platform for Privacy Preferences (P3P) is the most significant effort currently underway to enable web users to gain control over their private information. The designers of P3P simultaneously designed a preference language called APPEL to allow users to express their privacy preferences, thus enabling automatic matching of privacy preferences against P3P policies. Unfortunately subtle interactions between P3P and APPEL result in serious problems when using APPEL: Users can only directly spe ...

Keywords: APPEL, P3P, XPath, XPref, hippocratic databases, preference, privacy-aware data management

17 How ordinary internet users can have a chance to influence privacy policies

 John Sören Pettersson, Simone Fischer-Hubner, Marco Casassa Mont, Siani Pearson

October 2006 **Proceedings of the 4th Nordic conference on Human-computer interaction: changing roles NordiCHI '06**

Publisher: ACM Press

Full text available:  [pdf\(534.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

By 'Obligation Management' we refer to the definition, automated enforcement, and monitoring of privacy obligation policies. Privacy policies are nowadays found on most organisations' web pages, especially when data is directly collected from the user/customer. The paper demonstrates how users can influence rather than merely accept a privacy policy, and further relates this to the larger framework within which policy compliance should be discussed. Four problem areas are identified (from design ...

Keywords: obligation management, privacy policy, user interfaces

18 Applications and system issues: Securing user inputs for the web

Jan Camenisch, abhi shelat, Dieter Sommer, Roger Zimmermann

November 2006 **Proceedings of the second ACM workshop on Digital identity management DIM '06**

Publisher: ACM Press

Full text available: [pdf\(655.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The goal of this paper is to study *secure and usable* methods for providing user input to a website. Three principles define security for us: certification, awareness, and privacy. Four principles define usability: contextual awareness, semantic awareness, prodigious use of screen space, and the availability of recommended choices. We first describe how current approaches to the solicitation of user input on the web fail on both fronts: they either can not handle certified data, do not resp ...

Keywords: user interface designs

19 **B2B e-commerce and enterprise integration: Towards end-to-end privacy control in**

the outsourcing of marketing activities: a web service integration solution

Patrick C. K. Hung, Dickson K. W. Chiu, W. W. Fung, William K. Cheung, Raymond Wong, Samuel P. M. Choi, Eleanna Kafeza, James Kwok, Jousha C. C. Pun, Vivying S. Y. Cheng

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available: [pdf\(438.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the recent adoption of marketing activities outsourcing, there have been increasing demands and concerns for privacy control. The traditional approach of a bulk transmission of the customers' information to a marketing company cannot meet such demands, especially in the finance and healthcare businesses. Therefore, we propose a layered architecture and a development methodology for end-to-end privacy control over the export of each individual customer's records through a Web services platfo ...

Keywords: EPAL, OWL, SOAP, UDDI, WSDL, Web service integration, need-to-know principle, privacy policies

20 **Enterprise privacy promises and enforcement**

Adam Barth, John C. Mitchell

January 2005 **Proceedings of the 2005 workshop on Issues in the theory of security WITS '05**

Publisher: ACM Press

Full text available: [pdf\(261.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Several formal languages have been proposed to encode privacy policies, ranging from the Platform for Privacy Preferences (P3P), intended for communicating privacy policies to consumers over the web, to the Enterprise Privacy Authorization Language (EPAL), intended to enable policy enforcement within an enterprise. However, current technology does not allow an enterprise to determine whether its detailed, internal enforcement policy meets its published privacy promises. We present a data-centric ...

Keywords: EPAL, P3P, modal logic, policy summary, privacy policy

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